

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082013 A2

(51) International Patent Classification: Not classified

(21) International Application Number: PCT/US2005/005915

(22) International Filing Date: 23 February 2005 (23.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/546,876 23 February 2004 (23.02.2004) US

(71) Applicant (for all designated States except US): **TAKATA RESTRAINT SYSTEMS, INC.** [US/US]; 2500 Takata Drive, Auburn Hills, MI 48326 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CLARKE, Curtis** [US/US]; Grand Blanc, MI (US). **CASTRONOVAS, Axel** [US/US]; San Antonio, TX (US). **GAVIN, James** [US/US]; San Antonio, TX (US). **WALSH, Paul** [US/US]; Sylvan Lake, MI (US). **HERNANDEZ, Humberto** [MX/MX]; Monclova Coahuala (MX). **ROJERO, Andres** [MX/MX]; Monclova Coahuala (MX).

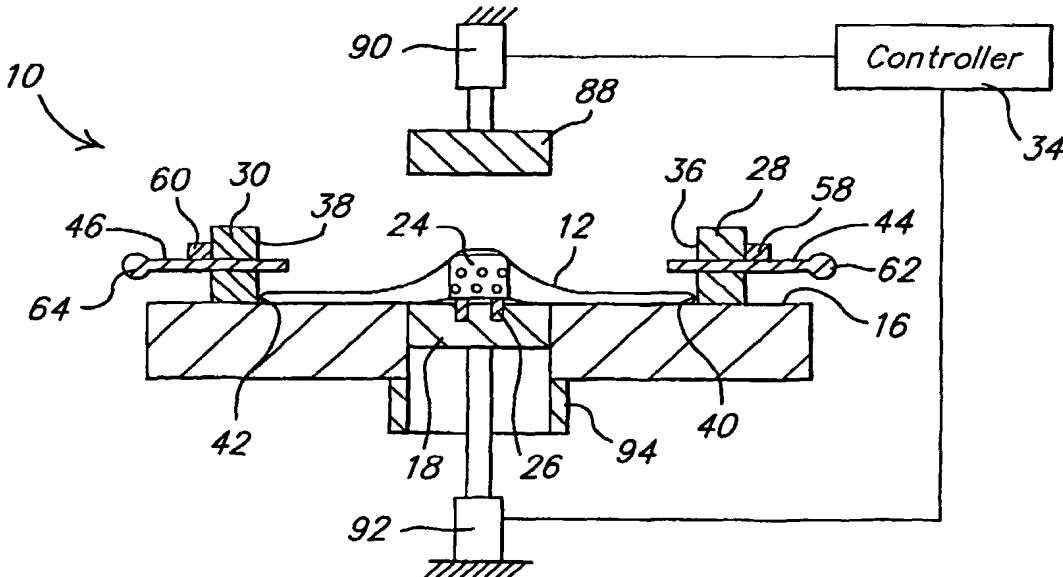
(74) Agents: DUNN, Robert A. et al.; Dinnin & Dunn, P.C., 2701 Cambridge Court, Suite 500, Auburn Hills, MI 48326 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR FOLDING AN AIR BAG FOR STOWING IN AN AIR BAG MODULE



WO 2005/082013 A2

(57) Abstract: An air bag on a surface is gathered by opposing faces of first and second gathering elements that are moved together from opposing edges of the air bag, and which are adapted so as to limit a height of at least one associated edge portion of the air bag to be less than a height proximate to a center of the resulting gathered air bag. In one aspect, a surface is extended from at least one face, or at least one face is shaped so as to limit the edge portion height upon gathering. In another aspect, at least one gathering element incorporates a holder adapted to hold an edge of the air bag during gathering.



Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.